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S E C R E T

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COUNTRY Poland

REPORT

SUBJECT Anti-Atomic Shelter for Mobile Radio Stations

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a two-page report and a sketch of a shelter constructed by the Polish Army to protect mobile radio stations from the effects of nuclear weapons.

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P O L A N D

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Military

Standard type of anti-atomic shelter for mobile radio stations1. General data

- a) In 1956 the construction of anti-atomic shelters for mobile radio stations was explained both in theory and in practice to NCOs and reserve officers of signals units.
- b) The shelter is to protect both the vehicle and the crew from the effects of atomic weapons, and is so constructed that transmissions can be made from it. Its size is large enough to accommodate the largest mobile radio station, which is installed on a ZIS [] and has a range of several hundred kilometres.

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2. Materials used

- a) Layer of earth on shelter roof, at least 1 m. thick; (see diagram labelled "ziemia" on sketch)
- b) Wooden beams, logs and planks, about 20 to 30 cm. thick; (see illustrations on diagram)
- c) Moulded plywood about 0.5 cm. thick.
- d) Lead plating 3 to 5 cm. thick.

3. Layout of shelter (see sketch)

- 1) Wooden beams 20 to 30 cm thick forming first outer layer of the roof, side walls and part of the rear wall.
- 2) Plywood impregnated with some special substance, forming the second layer.
- 3) Lead plating about 3 to 5 cm thick forming third layer.
- 4) Second layer of impregnated plywood between the lead and the wooden planks
- 5) Inner layer of plating, 30 cm thick on the ceiling, but thinner, i.e. about the same thickness as the first layer for the side walls.
- 6) Final inner layer of plywood covering roof and side walls, and impregnated with some special material.
- 7) Floor of shelter with a layer of concrete about 5 cm thick.

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- 8) Doors, double and opening outwards; because of this the floor outside the actual shelter is level with the inside for a distance of about 4m.
- 9) Recess in rear wall for diesel generator supplying electricity for the radio station.
- 10) Stove for heating the shelter, for which there is a recess in the left side wall and a metal chimney insulated with asbestos. The type of stove is not known.
- 11) Metal ventilation pipe in the rear left hand corner, with a protecting cover.
- 12) Metal pipe on right side wall for extending the aerial; when the aerial is not extended, the pipe is closed from outside with a peg.
- 13) Entrance to shelter, lined with wood, with no roof. The side walls slant slightly and the total length of the sloping entrance is about 10 m.
- 14) Small recess in the entrance wall for storing various tools, etc.

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